

Measurement

Lesson 8: Perimeter, Circumference, and Area

Math for Standards

Name _____

Date _____

EQ: How do you find perimeter, circumference, and area?

Perimeter is the _____ of a polygon.

Another way of describing **perimeter** is by saying it is the _____
around the _____.

Circumference is the _____ around the outside of a _____.

The formula for **perimeter of a rectangle** is _____ and the
formula for **circumference** is _____.

The formula for **circumference of a semicircle** is _____.

A **regular polygon** has all _____ and all _____ being
_____.

Area formulas:

Circle:

Semicircle:

Rectangle:

Square:

Triangle:

Trapezoid:

Rhombus:

You can use _____ to find the **length** of vertical and
horizontal line segments.

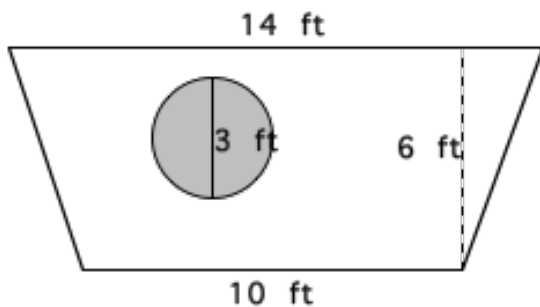
For **vertical line segments**, find the _____ of the difference of the
_____.

For **horizontal line segments**, find the _____ of the difference of the
_____.

Question: Why isn't the distance around a circle called the perimeter?

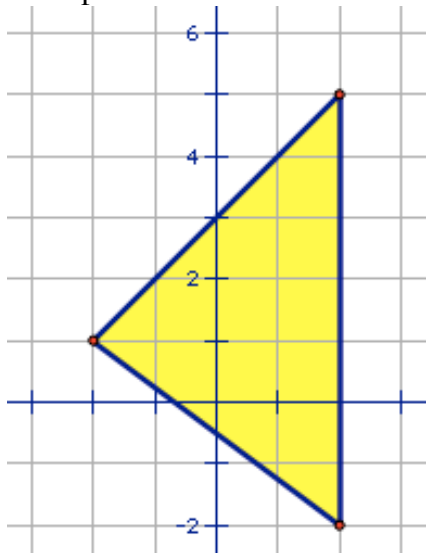
Example 1: A rectangular garden is 30 ft by 40 ft. If the length of each side is doubled, what will be the effect on the perimeter of the garden? What about the area?

Example 2: Find the area of the figure below. The shaded area is *not* part of the figure. What is the circumference of the circle?



Example 3: Write expressions for the perimeter and area of a square whose side is $2x + 5$ inches long. Then find the perimeter and area when $x = 6$.

Example 4: Find the area of the triangle.



Example 5: Find the area of the non-shaded region.

